NORTHERN SAN DIEGO COUNTY

W6NWG

Scope

THE PALOMAR AMATEUR RADIO CLUB, INC.
POST OFFICE BOX 1603
VISTA, CALIFORNIA 92083-0530

VOL. XX, NO. 8 | 1936 - 1985 | AUGUST. 1985

PRESIDENT: Stan Rohrer, W9FQN, Valley Center
VICE PRESIDENT: Larry de Montegre, KB6DNR, Vista
SECRETARY: Phil Leonelli, WF6L, Oceanside
TREA$URER: John Tentor, W6OLQ, San Diego

****

---PRESIDENT'S MESSAGE---

Our 2M repeater was used to good advantage by the ARES and the Animal Rescue during the recent Gopher Canyon, Escondido, and De Luz fires. The Club has a written agreement with ARES and will be working towards one with the Animal Rescue group. Thanks to all club members for showing restraint in using the repeater during these operations. This is the first time for us to be used to pass California Department of Forestry fire traffic. In the De Luz fire it was interesting to note that the amateurs provided a service that the expensive fire radios could not. The fire fighters were quite impressed with our ability to provide point-to-point communications between fire control stations and throughout San Diego County. The Executive Committee is still looking at a Packet Radio repeater (145.055 mHz) for our site on Palomar Mountain. On July 13th, Paul, KB5MU, and W9FQN spent several hours at the repeater site running tests to look for intermod and desense. Bob, WA6QQQ, ran the desense tests from his home station and measured a 1 dB desensitization of our 2M repeater during packet transmissions; and a momentary 10 dB desense at the beginning of the transmission. The Packet station was running 10W and its temporary whip antenna was 30' in front of the 2M repeater antenna. The desense of the Packet station by W6NWG/R was observed but not measured. The Club has three spare cavities which we think could be used to cure the mutual desense problem. If the Packet group we are talking to does not request space at our site soon, we might consider "going it alone" since the cost could possibly be held below $250 (a computer is not needed) and we have at least two expert Packeteers in the Club who can supervise the project. We have almost everything needed except for the Packet TNC (terminal node controller), which may be selling for $190 by August.

The Executive Committee will bring forth to the membership its proposal on Packet as soon as an investigation of the operation is completed. Please contact me, or any Executive Committee member, if you have any comments or suggestions on the Packet project.

73 de Stan, W9FQN

****

MEMBERSHIP IN THE PALOMAR AMATEUR RADIO CLUB is $12 per year with no initiation fee, and includes a subscription to SCOPE. Family memberships are $12 for the first member and $9.00 for each subsequent family member at the same address. Annual SCOPE subscriptions are $3.00. Membership matters, changes of address, subscription matters: PARC, P.O. Box 1603, Vista, CA 92083-0530.

SCOPE MATERIAL: News items and ads to Ralph Crossman, K6HAV, P.O. Box 73, Vista, CA 92083 by Wednesday two weeks before the club meeting.

TWO REPEATERS, both W6NWG/R, are owned and operated by the Club. One has an input of 146.130 mHz and an output of 146.730 mHz. Input for the other is 444.425 mHz and the output is 449.425. The 450 mHz machine is often on tone squelch (PL 3A). They are both located on the Club's property on Mount Palomar at about 5,600'; and are open repeaters for club members and occasional and transient users. Control operators: KB6AI, KB6DNR, W9FQN, K6HAV, WB6IQS, WA6KZN, K6ROR.

OFFICIAL CLUB BADGES: AvailAble from the club Trea$urer - for a price!

****

CLUB MEETINGS

WHEN AND WHERE? On the first Wednesday of the month at 7:30 p.m. in the Community Room of Glendale Federal Savings and Loan Association at the corner of East Vista Way and Anza in Vista. Visitors welcome.

AT THE AUGUST MEETING: Dennis Vernacchia, N6KI, of Chula Juana and Sandy Skidrow, will give us an illustrated talk on the Military Affiliated Radio System (MARS) at home and abroad. Dennis will tell us about some of his experiences in a MARS station in combat, and how they operated there. If you don't get combat fatigue and do need some combat time, come on out and hear Dennis' war stories. He'll also tell us about Barry Goldwater's MARS station.

SHOW AND TELL: Larry, KB6DNR, will tell us about RTTY on W6NWG/R, and Paul, KB5MU, will talk about Packet Radio. If you have something of note, bring it along and let us all see it.

SILENT AUCTION: Unfinished antenna tuner, 12VDC power supply, and the usual batch of hard-to-find goodies in the parts department at 4/$1.

AT THE JULY CLUB MEETING: Carl and Leona Wallace, WD6B & WA6OHB, gave an illustrated talk on their recent visit to Pitcairn Island and their stay with some of the descendants of the Bounty mutineers. Their slides and movie gave us an excellent idea of what Pitcairn looks like.

Thanks to Vina de Montegre for the fine coffee and wonderful chocolate chip no-cal goodies. Tasties were also brought by Mac, WB6GXR. Thanks so much. They were deeelightful!

PICNIC! PICKNICK! PIOUENIOUE! PEEKNEEK! PEAKNEAK! PAIKNAIK! PICNIC!

The PARC's annual picnic will be held on Sunday, August 25, in San Dieguito Park on Lomas Santa Fe Drive east of I-5 in Lomas Santa Fe. The park opens at 0930 and lunch will be a pot-luck served at 1200. Those with last names beginning with A-L bring a salad; those with M-Z a casserole. Bring enough to feed about six. The site is area 1, that of last year. The prize drawings will be held after lunch. Prizes will include: ICom IC2A 2M HT, MFJ 300W antenna tuner, 2M 45W amplifier, 40M mobile antenna, 2M beam, domestic Call Book, ARRL Handbook, Yaesu lightweight headphones, hand key, and a self-igniting torch.

Tickets for the drawing be handed out by the Secretary at the August club meeting and at the picnic. Tickets will not be mailed unless you provide the Club with a S.A.S.E. Tickets may be picked up for you if the person doing so has a note from you. You do not have to be present at the picnic to win. Your ticket(s) may be put in the hopper by your agent. The Club will not act as your agent.

ARRL FIELD DAY CONTEST, 1985

(Wait'll next year!)

While the bands were a little "soft", our lack of mutual interference helped to make up for it. Execept for 10M, we operated all bands from 160M to 2M, made 27 contacts on Packet Radio, 298 CW contacts (including Packet), 1,613 phone contacts, originated a Field Day message, handled ten pieces of message traffic, and operated a solar-powered station (75M phone). We used three generators and at least four batteries. Harry Field's 240' CCD antenna, the pneumatically erected tower for the 20M beam, WI6B's solar panels, and KB5MU's Packet station were all worthy of note. N6IE's all-band CW station brought out a lot of ops, who might otherwise not have made an appearance. Our final score was 4,418 plus 500 bonus points, compared to 1984's 4,464 plus 400 bonus points.

PARC members who came out and helped set up on Friday were: KS6S, WA6HYC, N6GSS, WA6KZN, KE6XF (the Pole Greaser), W9FQN (he and KA6FPS hosted the Club), KB6DNR (the pneumatic poler), WI6B (the Sunny Kid with his solar panels), N6IE (Mr. CW, and still going strong) and K6HAV. Former club members W6LKC (he brought his CCD antenna out) and WB6MSE helped set up and take down antennas. Other PARC members particpating or visiting were: WA6ZKC & WA6ZKD (40M CHOPS), KZ6X (20M CHOP w/the PC logger), KB6GYG (his first taste of FD), K6CLU, WD6FWE (Mr. Fixit), WA6HQM (all bands, all modes), N4KRA (new PARC member and had a ball), KB5MU (a real Packet and filled in on other bands too!), WA6IWK, KA6GHE (a help on 40M), K6GJD and KA0RGQ, (VHF strikes again!), WB6R, W6YYV, K6RTD, W6SMP, KE6BH, KA6YJH, W6JSP, WA6BHE, N6CKQ, N6GNB. N6GWJ & WB6HMY (they helped us move our traffic). AD6Z, KS6S, and W6TFB (helped N6IE keep the atmosphere around the CCD antenna well ionized). W6BLL, WB6JVS, N6KI (he was our general purpose op), K6YGK (the duty photographer), and N6INN (breaking into roundtables and asking for a signal report and "By the way, could you give us a Field Day contact?") Member W6SMP brought KG6LB, a potential PARC recruit and former FCC engineer to visit. Hope we didn't leave anyone out. Thanks too, to those PARC members who worked W6NWG. Next year we'll have a designated 2M FM simplex channel so you can ALL work us - we're not making the 2M contacts we should be! W9FQN, KA6FPS, and their family did yeoman service in keeping the kids occupied, getting the chow out, and making the final cleanup sweep of the site for us so we'll be welcome again next year. N6INN bought the chow, and several others brought out the no-cal tasties for us. Vina deMontegre kept us in coffee - mercifully, as the contest dragged on

(and it do drag a little at age 65!). K6YGK's pics will appear in a forthcoming issue - in full gorgeous natural color - black and white on yellow paper to commemorate the SCOPE's journalistic style.

All things considered the Club did a really fine job! Our score was the equal of last year's in spite of band conditions. An excellent Field Day, with great participation. Sorry you missed it. "Wait'll next year!"

FORESAIL

(If you think that's a jib, you're not mizzen the punt!)

Hallicrafters S-38, S-38E, and S-120. Heathkit SB-100 HF xcvr, SB-610 monitorscope. A scanner, marine xcvrs, Johnson 6 and 2 transmitter. Call Stan, W9FQN, at 749-0276. These are club items. Make an offer! (8)

Commodore 1525 printer w/dust cover. Works on Vic-20 and C-64, $150. Call Earl, K6MXM, at 743-0860. (8)

Swan 1040-V w/75M add-on kit 10-75M trap vertical antenna, $50. Call Earl, K6CLU, at 724-2827. (7)

Atari 1027 80 column letter quality printer w/one 200' roll of paper. Like new. Call Harold, W6UUJ, at 726-2616. (7)

Epson MX-80 printer w/RS-232C interface and Graftrax built in, new condx, $295. Call Stan, K7BHI, at 728-2668. (7)

Kenwood 2500 HT w/MS-1 charger and SMC speaker mike, all for $250; Call Allen, N7AMR, at 434-5656. (6)

Yaesu FT225RD 2M all mode base xcvr for 12VDC, 117 or 234VAC. 25W on SSB, FM, and CW. Vox, semi-break-in CW w/sidetone, noise blanker, discriminator meter and offset clarifier for tx/rx, digital and analog frequency readout, programmable tone burst. No kitchen sink. Never raced. Call Felix, N6IE, at 724-4772. (6)

Hallicrafters FPM-300 10-80M xcvr w/mic $165; Bandmaster Deluxe 80-2M xmtr, $40. Call Alan, KF6EU, at 728-4106. (6)

Swan 500CX SSB HF xcvr, modified in 1983, w/117CX pwr supply; Swan phone patch; TH-33 Jr. beam; CDE rotor; coax; 40' (4 10' sections) tower. Must sell. Considering donation to a deserving new ham. Call Harry Parker, W6ASQ, at 728-8236. (6)

Palomar Engineers Interface CI-103, Kantronics Hamsoft for Vic-20. Like new. Call Harrison, WB6NIG, at 724-4773. (6)

Dentron Junior Monitor antenna tuner, $30; Micro-Craft Morse-A Word, $35; Kenwood PC-1 fone patch, $35; Hunter 2kw swr bridge model 25 w/pwr meter (remote) model 26 directional coupler,$30. Yaesu FT 221 all mode 2M base station, $250. Call Floyd, W6JSP, at 741-8391. (6)

Azden PCS-2000 2M FM xcvr w/PL. Call Bob, WA6GYG, at 941-2824. (8)

WANTED

(Start houted men!)

Folks to be responsible for bringing edible goodies the September and October club meetings. Pay attention and help out here! Call Vina de Montegre at 726-0353, or contact her at the meeting or picnic. DO IT!

The repeater building needs a coat of paint of the green or brown persuasion. It's about 10'x10'x8'. Also needed is a simple VOX unit to permit tape recorder monitoring of the repeater, and a maximum-minimum thermometer for the repeater building. Call Stan, W9FQN, at 749-0276.

Drake 2B rx. Must be mint condx and cheap, cheep, cheep! J-38 hand key in mint condx. Have money, will travel. Call Dan, WA6HYB, at 433-4445.

Kenwood TS-130SE. Call Allen, N7AMR, at 434-5656.

160M linear amplifier. ICom IC-22A in working condx and/or other xtal controlled solid state rig. Call Dennis, N6KI, at 271-6079.

FOR LOAN TO FORLORN CLUB MEMBERS

HF 50 ohm dummy loads: 400W, 50W, 1KW. Decade resistance box, 50 ohm HF pwr/swr meter, field strength meter to 2M, oscilloscope, C-R bridge and signal tracer, audio generator, electric engraving pencil, 110VAC monitor, 100W low-pass filter to 30 mHz. Call Stan, W9FQN, at 749-0276.

SURVIVORS' COMMITTEE

The Club tries to help the survivors of Silent Keys in the dismantling of the radio station and the disposal of the equipment. The Survivors' Committee is an ad hoc committee, formed of club members who are known to the survivors; and such others as are needed to disassemble the station and antennas, and price, advertise, and sell them to the best advantage and according to the wishes of the survivor. Contact Stan, W9FQN, if you have any questions or if assistance is needed.

NUDE AND REGNUED MEMBERS

NEWED MEMBERS are: Tom Merz, N4KRA; Ted Nida, N6LUQ, Vista; Gerry & Cindy Earl, N6LYX & KB6IXG, of Poway; Bud Lincoln of Leucadia with no call yet, but awaiting his Advanced Class license; Bob Steelman, W6AFZ, San Diego; Vina deMontegre of Vista, and Charles Littlefield. Welcome, we're happy to have you as club members. Also Harry Williams, W6TCI, Vista; Joan Samuels,

KM6S, San Diego; Ron Earl, W6TXK; all members a few years back. Glad to see you in the fold again.

REGNUED MEMBERS are: Stan Loye, K7BHI; Gayle Lee, AK6Z; Roy Maxson, W6DEY; Paul Brouillet, WD6BRX; Pete Mayes, WB6OBH; Russ Ames, KG6GW; Tom & Wilma Healy, N6DSX & N6DSU; Hal Janssen, W6DOL; Bob & Jane Rice, KS6S & AD6Z; Leona Wallace, WA6OHB; John Reber, N6BAD; Herb Patchell, Sr., KD6WX; Paul & Mary Dillinger, WF6K & KB6HWE; Bill & Sandy Williams, WAØABX & WBØWGU; Harrison Breyer, WB6NIG; Mac McBride, WB6GXR; Gene Good, KB6GYG; Wilson Whipple, N6COU; Ray Miller, N6EQB; Jack Williams, W6BLL; Dee Crumpton, N6ELP; Emily & Stan Wolfe, WA6ZKC & WA6ZKD; Duane Stedman, WB6R; Marlin Enders; Buck & Mary Buckner, KAØRGQ & KB6HCH; Bob Coup, W6BXJ; Herb Wandschneider, WA6SVN; Ralph Dempsey, N6DVL; Marty Cornell, K6NS; Judy Riggen, KA6YJH; John & Alan Martin, W6SE & KX6BE.

NEW CALL SIGN: Alan Martin, KX6BE from WA6SGK.

CORRECTED CALL SIGN: W6BHF vice W6BHE for Ray Dobler.

SANDARC AMATEUR RADIO BOOTH AT THE DEL MAR FAIR

The PARC did its share, and mayhap a tad more, manning the SANDARC booth at the Fair on July 3-5. Club members participating were: WB6HMY, K6HAV, N6KWC, KA6FPS, N6CKQ, N4KRA, KB5MU, N6GZI, W6OLQ, KB6GYG, KB6DNR, WF6L, KAØRGQ, KB6HCH, N6GWJ, and N6GNB. Paul, KB5MU, had his Packet Radio set up and operating for all to see. Thanks to all of you who stepped forward and helped in this annual activity. A special thanks to Barbara, KA6FPS, and her daughter, Linda, who stepped forth and did the job on club meeting night. HRO deserves its share of the credit for the Kenwood TS-43ØS, with accessories, and TR-795Ø they provided for the operating station. Let's hope we can avoid a future commitment on the first Wednesday of the month.

AMATEUR RADIO COMMUNICATIONS FOR THE FORESTRY DEPARTMENT

During the De Luz fire, north of Fallbrook and east of Camp Pendleton, amateurs provided communications from the fire camp at De Luz School back to the headquarters in Fallbrook when telephone lines burned out. Answering W6INI's call initially were Larry, KB6DNR, who drove through the fire to get to De Luz School; Gerry and Cindy, N6LYX & KB6IXG, at Fallbrook. Going out later were Joan, KM6S, and Buck, KAØRGQ. Those who helped initially relay traffic to and from De Luz were K6BPT and K6HAV. Art, W6INI, got the show on the road and kept it there, even after some thoughtless person left a transmitter on the air for several hours the next morning, timing the repeater out. KB6DNR provided us all with some thoughtful moments when he drove through the fire to De Luz with a nearly empty gas tank!

Other club members involved in the Humane Society Reserve effort were Dee, N6ELP, and Scott, KD6FY. If we've left any PARC members out, it's because we didn't hear them or didn't get their calls down when we did.

Communications on the repeater were generally handled in a thoughtful manner.

EXECUTIVE COMMITTEE MEETING

THE EXECUTIVE COMMITTEE, consisting of the Club's officers and committee chairmen, meets on the second Thursday after the club meeting at various locations. Without fail, the meeting usually starts at 7:3Ø p.m. Club members are welcome to attend and observe - quietly and with a fitting sense of respect. The August meeting will take place at the home of WF6L.

AT THE JULY MEETING, which was held at the home of WF6L: The Committee listened to Art Smith, W6INI, ARRL Section Manager and Section Emergency Coordinator with his critique of the recent fires. The Committee also voted to urge club members to thank Glendale Fed for permitting us to use their Community Room for meetings and FCC testing by the VEs. The testing of a Packet Radio at the repeater site is to be conducted to ascertain mutual interference problems. Coffee and tasties were toothsome.

LATE STRAIGHT FROM THE FCC

Thanks to June Butler of the La Mesa Office

Advanced Class licensee James Brantley, K6KPS, of Los Angeles, has been issued a Notice of Apparent Liability to Monetary Forfeiture for $2,ØØØ as a result of FCC investigations into long-time complaints that Brantley was disrupting communications, recently on 2ØM.

Engineers from the FCC's Detroit Office, using mobile RDF equipment, conducted an enforcement campaign in the Detroit area against illegal jamming of a local amateur repeater. Five persons were apprehended, three of whom face criminal charges for operating without licenses and may receive up to a year's imprisonment and $5,ØØØ fine. Another faces possible revocation of his Advanced Class license or imposition of administrative forfeiture of up to $5,ØØØ.

The FCC has proposed that VECs assume maintenance of Amateur opertor examination question pools, a function formerly performed by the FCC.

The FCC has amended its rules on the rebroadcast of non-broadcast radio station messages by broadcast radio and TV stations. Amateur stations would be prohibited from being used as remote pickup or auxiliary link broadcast service facilities. Such uses of an Amateur station as forwarding weather or commuter traffic reports for use in any broadcast context will continue to be prohibited, but emergencies involving human safety or the immediate protection of property may warrant limited use of Amateur stations for news and information gathering purposes. A rule of reason will apply in such cases.

****

AMATEUR LICENSE EXAMINATIONS in north county are conducted at Glendale Federal Savings and Loan Association at the corner of East Vista Way and Anza in Vista on the second Saturday of every month from 1000 to 1600.

License exams are also given at Normal Heights United Methodist Church, 4560 Mansfield St., San Diego on the 1st Saturday; at St. Timothy's Lutheran Church, 2605 Morningside Dr., San Diego on the 3rd Saturday; and at Bostonia Recreation Center, 1049 Bostonia St., El Cajon and at the North County Blind Activity Center, 250 E. Grand Ave., Escondido, both on the 4th Saturday. No exams on the 5th Saturday.

Applicants for examination at any of the above locations must send a S.A.S.E. and a completed, signed, NEW Form 610 and a copy of their license and code certificate, if any, to SANDARC-VEC, Post Office Box 5023, La Mesa, CA 92041 ten days prior to the testing date. New 610s may be obtained from the FCC office in La Mesa, phone 293-5478. Applicants must bring their original license and code certificate (if any) with them on the day of the exam. NO "walk-in" examinees accepted.

ELECTRONICALLY ORIENTED FLEA MARTS ARE:

Ham radio-computer-electronics swap meet in the San Diego Stadium parking lot 0700-1100 on the first Saturday of the month.

The TRW ARC flea mart at the corner of Compton and Aviation Blvd in Manhattan Beach on the last Saturday of the month from 0800 to 1100. Talk-in is on 145.320 mHz simplex.

SURPLUS GOODIES at HIGHWAY COMPANY, 305 W. Wisconsin Ave., Oceanside. See ad in this issue. Aluminum, brass, copper stock at Escondido Sales yard, 1428 Mission Rd., Escondido. Electronic, mechanical, computer parts, NiCads at Industrial Liquidators, 4887 Convoy St., San Diego; and at Gateway Electronics at 4633 Convoy St.

IF YOU CAN'T SELL IT, or don't want to drive to TRW, the Club will be happy to take your surplus and sell it to enrich the Club's coffers. Contact Stan, W9FQN, or any other Club officer to make arrangements to unload your excess KWM-380 or TS-940.

THE CLUB'S POLICY ON JAMMERS is to ignore them completely (even though some otherwise good club members do not) since recognition is what they are seeking. Recognition of any sort spurs them on to greater efforts so please ignore them and carry on your QSO or sign off, whichever suits you. Listen on the repeater input and attempt to hear the jammer and to locate the source of the interferring signal.

THE NORTH COUNTY TRAFFIC NET is operated by the Club, and meets nightly on 146.730 mHz -600 kHz at 2000 local to handle formal written traffic. Visitors are welcome.

ZUM is doing it to us. The North County Traffic Net needs more members to effect toll-free message delivery. Let's have some new net members from far away places with strange sounding names. If you haven't tried traffic handling, please step forward and give us a hand.

JOIN THE ARRL! Do it via the PARC and the Club will get $2 which would otherwise go to Gnuington (CT 06111, that is). Won't cost you a silly sou more than if you had rashly gone off on your own, either. Just make your check payable to the Palomar Amateur Radio Club and get it to "Treasurer John" care of the P.O. Box 1603 address in the masthead, or hand it to him at the next club meeting. The Tab is $25 per year, two years for $47, or three for $65.

If you're not an ARRL member, why not? Who else have you got lobbying for your hobby? The Club gets $5 for each new ARRL member who signs up via the Club. Let's get with it NOW!

****

AMATEUR LICENSE EXPIRATIONS

Licenses expiring in August: WB7OCR and K6ROR. September & October: NØNE. If you want a reminder as to the expiration date of your amateur license, get it to us and we'll see that it is fed into the maw of the Gi'nt Computer. Form 610 is available to PARC members from the Club Secretary at club meetings or for a S.A.S.E. to the Club P.O. box. They are, of course, available from the FCC office in La Mesa, phone 293-5478.

LATEST CALL SIGNS ISSUED

As of June 1: WI6H, KG6UF, N6MBW, KB6JCW.

SICK CALL

Bill Watt, WA6HYC, reportedly has a very ill wife in the hospital.

Marty, K6NS, spent more than a week in Tri-City with Fleabitus (probably got too close to Chico). Marty will come out for a couple of weeks on July 16 and go back in for prostate surgery. Marty terrorized the air waves from his Tri-City Command Post. The hospital did send a technician to check out Marty's 25W 2M rig, but gave it a clean bill of health. Now if Marty can just get the same thing! Marty is now home but is to go back in for surgery in the near future.

****

RADIO TELETYPE - CONTINUED

By Dee Crumpton, N6ELP

Since RTTY is such an ideal mode for traffic handling, we should be skilled it its operation. Most health and wellfare messages will be held until priority traffic has been sent, so it is best to have the H&W trafffic stored on tape or disc, ready to be sent at full speed when the higher priority traffic is through. One way of becoming adept at handling emergency traffic is to become familiar with voice traffic procedures as they are very similar, with notable exception being one of verification. On RTTY a confirmation (CFM) line is sent following the signature. CFM should include last name of addee, city, and phone number. ARRL abbreviated texts should be used where possible. Lists of these radiogram texts are available for a SASE from ARRL. Better yet, send $.50 and request, additionally, the Public Service Communications Manual and Operating an Amateur Radio Station. These should be on the book shelf of all hams. ARRL message format, handling instructions, and all are covered therein.

Some RTTY procedures you should be aware of are: Pause and make sure the frequency is clear. Start ALL transmissions with 10 spaces or "diddles", followed by a carriage return and a line feed (usually the RETURN key on a computer). This allows all machines to "come on line" and begin printing on a new line. End all transmissions with a carriage return and a line feed. Line length should be 68-72 characters, including spaces. Longer lines pile up at the right edge of the paper and shorter lines waste paper. Many folks still are using the old mechanical monsters, so it helps if you do your part to conserve their paper. Do not use excess line feeds, and do not clear your screen using multiple RETURNs while on the air. Allow time for breakers between transmissions (10 seconds is good), and break with your callsign. Wait to be acknowledged before further transmitting. When in a round table, turn it to a specific station, eliminating confusion. When using mailboxes (message systems), close the system after using it. NNNN will close most of them. Four Ns are required. Your call and "monitoring" should be sent instead of CQ when using a repeater.

Before leaving the shack, make sure your transmitter is not keyed. One of RTTY's pleasures is unattended operation, but you MUST be in control when your station is on the air. Early teleprinters used the color green for their key covers, so if you are welcomed to the world of the "green keys", you'll know what they're talking about. Be friendly, helpful, and enjoy "MY WONDERFUL WORLD OF THE GREEN KEYS". de DEE, N6ELP.....

DOWN THE TOOBE

The June issue of the Western Area Army MARS newsletter had a nice article on Marv Smith, N6NA, being back in action after his illness this Spring. Also mentioned were Buck, KA0RGQ, and Bob, WA6GYG, new MARS members.

PLEASE NOTICE! If you din't get this issue of SCOPE it's because your slow on the draw and didn't get your reenlistment check drawn and into the hands of ol' Fast Deposit John, our treasurer. If you got this SCOPE you're OK. If not, better luck next time. Pay attention! Stay alert! Remember: Once a lert always a lert.

All benefit when the repeater is not monopolized during commuting hours, when so many are on the road. It is also courteous not to "tail-end" on the repeater. Leave a wee pause for station identification (particularly for those with less power who otherwise are unable to break in).

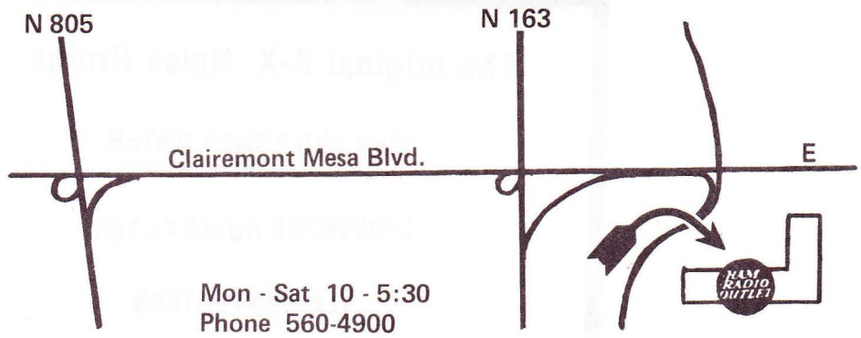
Leona, WA6OHB, sends word that, while the callsign VR6IM is not in the Call Book, it is a valid call. It required to used by any station on Pitcairn Island during the handling of traffic concerning medical matters.

Vendy & Genevieve Johnson, W6CWK & WA6KKQ send their regards from Oregon along with their SCOPE renewal. No rain for 40 days and 40 nights, they say. There new radio club in Sweet Home has 7 new novices out of 9.

We sure appreciate the time and effort that George, K6YGK, has put into getting pictures for the Club of its activities, such as Field Day.

"That's all", she wrote.

HAM RADIO OUTLET™



Mon - Sat 10 - 5:30
Phone 560-4900

5375
KEARNY VILLA RD.
SAN DIEGO, CA 92123

GLENN K6NA
TOM KM6K

KENWOOD TR-7950	FM, 45W, SUPER FEATURES	$365.00
KENWOOD TW-4000A	DUO-BAND, 450/144 MHZ w/free MA 4000 Duo Band antenna	$519.95
KENWOOD TS-430S	LIMITED TIME SPECIAL	$699.95
YAESU FT-726R	FULL DUPLEX - ALL MODE for OSCAR SATELLITE!	AVAILABLE
YAESU FT-757GX	*NEW*	$719.95
YAESU FT-2700	*NEW* DUO-BAND, 2M/450 MHZ FULL DUPLEX	$521.95
ICOM IC-735	NEW HF GEN. COVERAGE	$749.95
ICOM IC-2AT/3AT/4AT	Great prices on these	
ICOM IC-37A	220 MHZ MOBILE *Price Slashed!*	$299.95

ICOM IC-02AT, KENWOOD TR-2600A, YAESU FT-209RH . . . Newest generation of "State of the Art" HT's. See them here . . . . Great prices!
Example: TR 2600A HRO price $299.95 including a free spare battery (limited time offer).

While browsing . . don't forget to see the CW/RTTY set-up using the Commodore 64 and the AEA interface. Let us demonstrate this fascinating mode for you.

COMMUNICATIONS SPECIALISTS sub-audible units for your FM and HT rigs.
We have a good stock of antennas, and of course, a good supply of rotors, too.
Don't forget - we have guaranteed used equipment also.

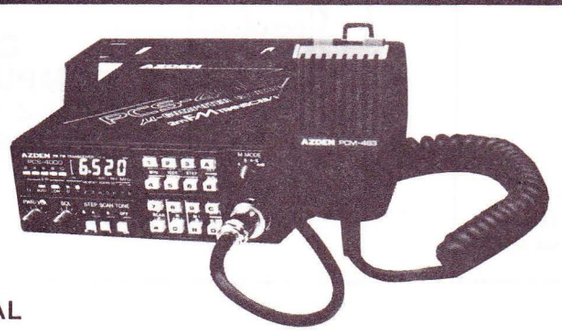
Experienced sales help needed - part time or full time (see Glenn)

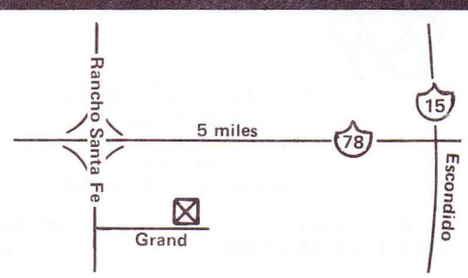
HAM RADIO OUTLET™

THESE PEOPLE SUPPORT THE "SCOPE" WITH THEIR ADS

WESTCOM

M-F: 10-5
Sat: 10-2





2 METER SPECIAL
SPECIAL FACTORY PROMOTION $249.00
90 DAY WARRANTY

ICOM · YAESU · AZDEN
KENWOOD · TEMPO · LARSEN
CUSHCRAFT · HUSTLER · KLM

COMPLETE SALES — SERVICE — INSTALLATION

MERIT W6NLO · FLOYD W6JSP · JERRY W9KEX · BOB KA6HZF

WESTCOM COMMUNICATIONS

1320 GRAND AVE. · SUITE 4 · SAN MARCOS

744-0700

The original R-X Noise Bridge

SWR AND POWER METER

UNIVERSAL AUDIO FILTER

VLF CONVERTERS

Palomar Engineers

1924-F West Mission Road
Escondido, CA 92025

ELECTRONICS

SATISFACTION GUARANTEED

NICHOLAS A. ANDREE

HIWAY COMPANY
305 Wisconsin Avenue
Oceanside, CA 92054

Telephone:
(619) 722-1175

Coin Art
FINE JEWELRY HAND CUT
FROM U.S. AND FOREIGN COINS

PHONE: 726-0353
LARRY de MONTEGRE

P.O.BOX 892
SAN MARCOS, CA. 92069

KB6DNR

G AND J SECURITY
Installation
Alarm Equipment, Safes, CCTV
Service
Calif. Alarm Lic. #LB001867

(619) 728-6904
(714) 834-9116 24 Hrs.

M. W. Skip Skinner
Branch Mgr.

(619) 433-4119

CALCO COMPUTERS, INC.
1727A S. Oceanside Blvd.
Oceanside, CA 92054

Micky Jenkins
Store Manager

SCOPE USPS 076530, published monthly by the PALOMAR AMATEUR RADIO CLUB, INC., 3716 Bluebird Canyon Rd., Vista, CA 92083. Subscription: $3.00 per year. Second Class Postage paid at Vista, CA 92083. POSTMASTER: Send changes to: SCOPE, P.O. Box 1603, Vista, CA 92083-0530
ARRL FIELD DAY CONTEST, 1985

2nd Class Postage paid at Vista, CA 92083

ohn Kuivinen
B6IQS 07/86
P.O. Box 1466
Vista CA 92083